

Commonwealth of Kentucky
Division for Air Quality

PERMIT APPLICATION SUMMARY FORM

Completed by: Herbert Campbell

General Information

Name:	Jim Beam Brands Company - Plant #1
Address:	Bullitt County, 526 Happy Hollow Rd., Clermont, Kentucky
Date application received:	July 25, 2003
SIC/Source description:	2085
AFS Plant ID:	21-029-00005
Application log number:	55910
Permit number:	V-03-039

Application Type/Permit Activity

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__Administrative	<input checked="" type="checkbox"/> Title V
__Minor	<input checked="" type="checkbox"/> Synthetic minor
__Significant	<input checked="" type="checkbox"/> Operating
<input checked="" type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

Compliance Summary

<input type="checkbox"/> Source is out of compliance	<input checked="" type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

Applicable Requirements list

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input checked="" type="checkbox"/> Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052,1(14)(b)	

Miscellaneous

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☐ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☒ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application

Emissions Summary

Pollutant	Actual (tpy)	Potential (tpy)
PM	45	1,479.9
PM ₁₀	18	197
SO ₂	219	841.5
NO _x	95	414.5
CO	33	78.8
VOC	1370	1959.2
LEAD	.08	1.16

SOURCE PROCESS DESCRIPTION:

The source is a distillery that makes distilled spirits. Grain is unloaded and conveyed to hammermills where it is ground. The grain is fed into mash cookers along with water, and the grain starches are converted to sugars by heating. The cooked grain/water mixture is fed into fermenter vessels as a batch operation to convert the sugars to ethanol. After an appropriate residence time, the mixture is processed through distillation columns and condensers. The condensed liquid is fed to spirits tanks and then gauged at the cistern tanks prior to barrel filling. The spent stillage is then dried with a ring dryer and put into a storage room. Whiskey from the cistern tanks is put into barrels until the appropriate age is reached. The barrels are then gravity dumped, rolled, and rinsed at the dumping station. After dumping, the whiskey is fed to the regauge tanks, where it may be processed and sent to be loaded for shipment. In addition, the source utilizes three indirect heat exchangers and a wastewater treatment facility.

EMISSION AND OPERATING CAPS DESCRIPTION:

The permittee has opted to renew as a Title V synthetic minor permit by limiting the source-wide emissions below 245 tons per year for sulfur dioxide (SO₂), a regulated air pollutant, to preclude applicability of Prevention of Significant Deterioration of Air Quality (PSD) 401 KAR 51:017.

The permittee may ensure compliance with the emissions limitations and standards conditioned within the permit for Emissions Units 07, 08, & 09 by performing the calculations based upon heat and sulfur content, fuel usage and processing rates, and emission factor information. Additionally, the permittee is required to monitor the fuel consumption rates, processing rates, and operation of each respective unit's control equipment used to control emissions.

OPERATIONAL FLEXIBILITY:

None